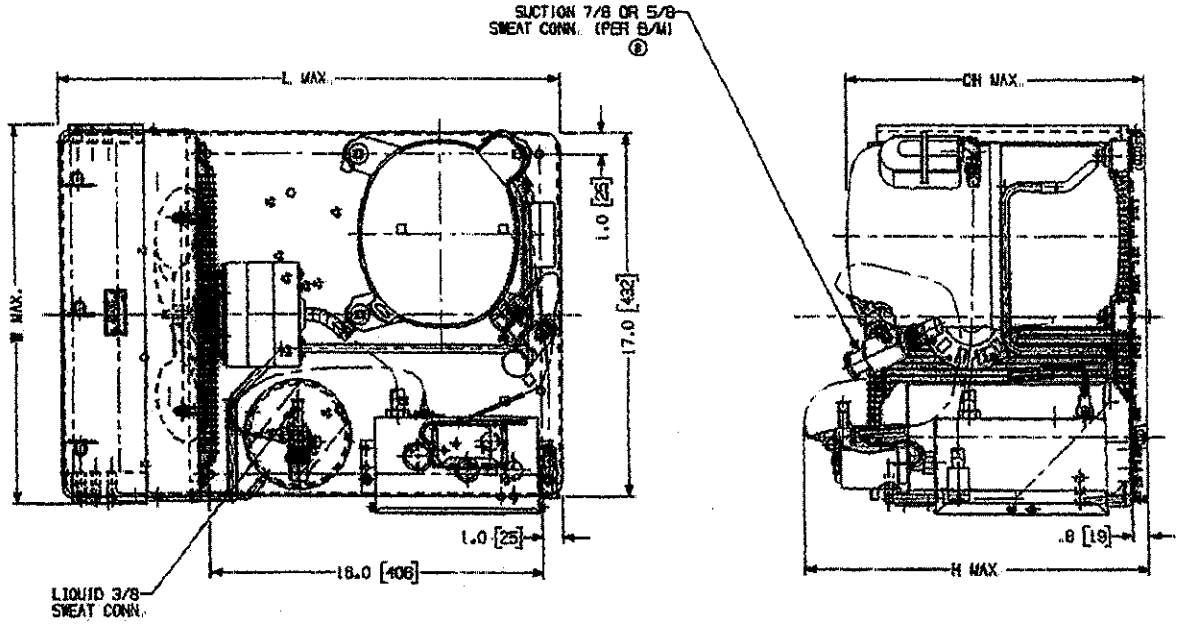
TECUMSEH HERMETIC CONDENSING UNITS

Jan 2003

MODEL AWA2457ZXTXC (B/M 2B3244-9) R-404A 1 1/2 HP AIR COOLED



NOTE: DIMENSIONING = INCHES (MILLIMETERS)

Model	Dimensions				*Line Connection		Pumpdown 90 ◦ F 90% Full	Air CFM	Oil Chg oz.	Gr. Wt. Lbs.
	L	W	H	CH	Suct.	Liq.				
AWA2457ZXTXC	24.0	17.8	16.4	14.3	7/8S	3/8S	6.3#	656	38	120

*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - MUST BE EVACUATED 60 HZ PERFORMANCE

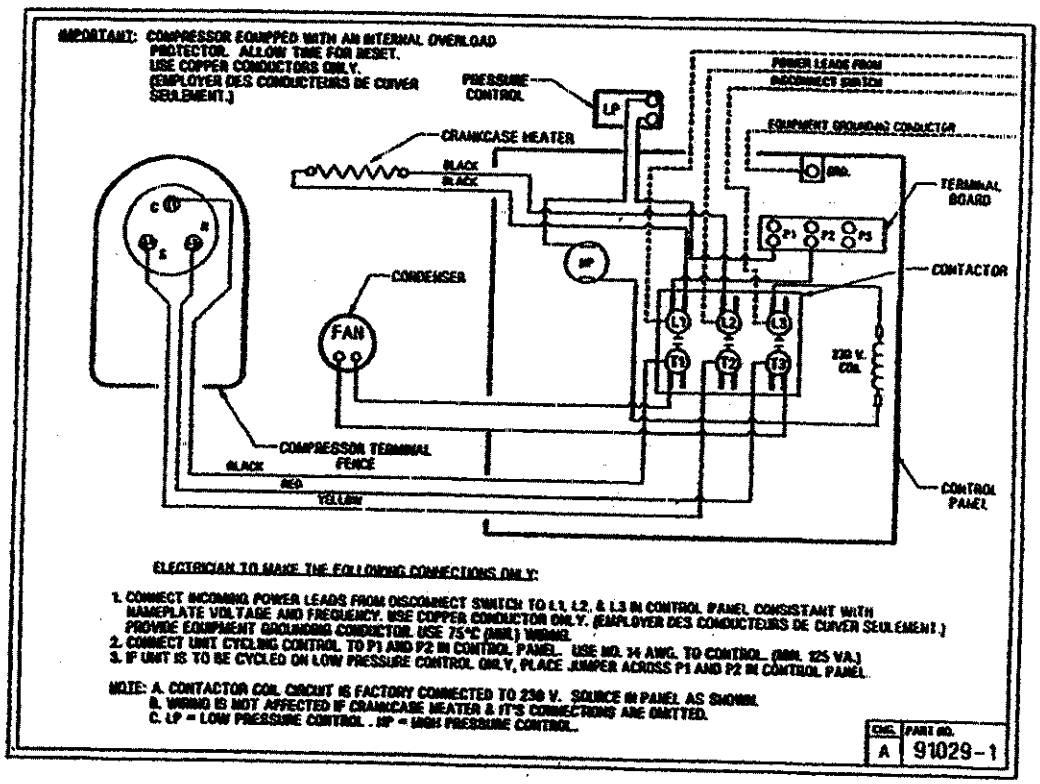
Approved Evap. Range		Ambient								
		90◦ F			100◦ F			110◦ F		
◦F	PSIG	BTUH	Watts	Head	BTUH	Watts	Head	BTUH	Watts	Head
-40	11.9	1940	892	229						
-30	15.0	3098	1067	243	2527	1010	275	1848	950	309
-25	18.4	3718	1165	252	3081	1118	283	2412	1072	316
-20	22.1	4365	1269	262	3659	1230	292	2979	1196	325
-15	26.1	5038	1380	272	4262	1347	302	3548	1320	336
-10	30.4	5738	1498	284	4888	1469	314	4120	1446	347
-5	35.0	6465	1623	297	5538	1595	327	4694	1572	359
0	40.0	7219	1754	311	6212	1725	340	5271	1700	373
+5	45.4	8000	1892	326	6910	1859	355	5851	1829	387
+10	51.2	8807	2037	342	7632	1998	372	6433	1960	403

Return gas temp. 65 ◦ F, 5 ◦ F subcooling

Date: January 2003
Unit Catalog Update
NEW

SPECIFICATIONS	**AWA2457ZXTXC**
Nominal Voltage	230/200-3
Unit B/M	2B3244-9
Voltage Range	253 to 180
Min. Circuit Ampacity	6.4
Max. Fuse Size (Amps)	20
Compressor Model	**AWA2450ZXT**
Comp. Bill of Material	AW615RT-121
RLA/LRA	4.20/40.50
ESP Overload	Internal
Control Panel	AC1396-6
High Pressure Switch	84097-3
Control	84026-5 (LP)
Contactor	91014 (30AMP-3PH,230V)
Fan Motor (OEM)	810S037B01

Fan RLA	1.10 RLA
Replacement Motor	TFM372
Fan Motor Bracket	Grd. Mnt.
Fan Blade	51563
Shroud	70736-1
Condenser	K42-4
Fan Guard	71062
Receiver Tank	51081
Receiver Tank Valve	31581-1 (3/8" S) RL
Suction Rotolock	31529-1 (7/8"S RL)
O' Ring Gasket	30334
Optional Outdoor Enclosure	TP-201D
Crankcase Heater (If Inc)	NA
Unit Drawing	SU1918-12
Schematic or Elect. Drawing	91029-1


IMPORTANT: COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
PRESSURE CONTROL
LP
POWER LEADS FROM DISCONNECT SWITCH
EQUIPMENT GROUNDING CONDUCTOR
GRD.
CRANKCASE HEATER
BLACK
BLACK
TERMINAL BOARD
P1
P2
P3
HP
CONTACTOR
CONDENSER
FAN
L1
L2
L3
T1
T2
T3
230 V. COIL
COMPRESSOR TERMINAL FENCE
BLACK
RED
YELLOW
CONTROL PANEL
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1, L2, & L3 IN CONTROL PANEL CONSISTANT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P1 AND P2 IN CONTROL PANEL. USE NO. 14 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF UNIT IS TO BE CYCLED ON LOW PRESSURE CONTROL ONLY, PLACE JUMPER ACROSS P1 AND P2 IN CONTROL PANEL.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WIRING IS NOT AFFECTED IF CRANKCASE HEATER & IT'S CONNECTIONS ARE OMITTED.
C. LP = LOW PRESSURE CONTROL . HP = HIGH PRESSURE CONTROL.
CHG. A
PART NO. 91029-1

Some parts listed may be optional or listed as replacement parts.